Aug. 30, 1990

Mr. Lynn Kunzler Division of Oil, Gas & Mining 3 Triad Center, Suite 350 355 West North Temple Salt Lake City, UT 84180-1203

RE: Water Schedule, Plants, Planting of Roadside Revegetation at Mine Site

Dear Lynn,

Enclosed please find a copy of Patrick Collins list of Plants that he planted across from the loadout at the mine site. You will notice at the bottom of his letter is the watering schedule he has asked us to follow. We are keeping a log of this watering at the mine site.

Should you have any questions or need additional information, please feel free to contact me at (801) 687-9813

Sincerely,

GENWAL COAL COMPANY

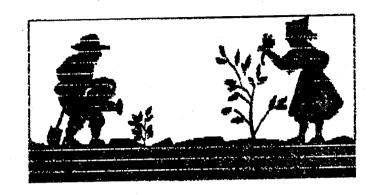
Randal J. Ralphs Surface Foreman MT. NEBO SCIENTIFIC

research & consulting

p.o. box 337 springville, utah 84663 (801) 489-6937

August 15, 1990

Al Childs GENWAL COAL COMPANY 195 North 1st West Huntington, Utah 84528



Dear Al:

Below is a list of names and numbers of the trees and shrubs that we planted August 14, 1990 on the "Roadside Revegetation" and "Hillside Revegetation" areas at the mine site. I look forward to planting the remainder of the plants in the other areas soon.

Singerely, falluh Collins
Patrick D. Collins

\* Water schedule below.

SCIENTIFIC NAME	COMMON NAME	NO.	PLANTED
Abies concolor	White Fir	8	
Cercocarpus ledifolius	Curl-lear Mtn. Mahogany	6	
Cercocarpos montanus	Alder-leaf Mahogany	2	
Chrysothamnus nauseosus	Rubber Rabbitbrush	10	
Cornus stolonifera	Dogwood	1	
Juniperus scopulorum	Rocky Mtn. Juniper	5	
Populus tremuloides	Quaking Aspen	46	
Prunus virginiana	Chokecherry	6	
Rhus trilobata	Squawbush	4	
Sorbus scopulina	Mtn. Ash	6	

<sup>\*</sup>WATER SCHEDULE: Aug-Sept. 1990 (M Th); Oct. 1990 (M); May-Oct. 1991 (M, or as needed)

## Seed Mix Genwal Coal Company Crandall Canyon Mine ACT/015/032 January 4, 1989

Species		Rate* Lbs/Acre
GRASSES & FORBES:		
Agroypron smithii Western wheatgrass		3.0
Agropyron spicatum Bluebunch wheatgrass		2.0
Agropyron trachycaulum Slender wheatgrass		3.0
Bromus caranatus (marginatus) Mountain brome		3.0
Dactylis glomerata (piaute) Orchard grass		0.5
Aster glaucoides Blueleaf aster		0.5
Linum lewisii Lewis flax		1.0
Melilotus officinalis Yellow sweetclover		0.5
Sanguisorba minor Small barnet		1.0
	TOTAL	14.5



## DIVISION OF PLANT INDUSTRY

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\*#300

SEED LABORATORY SALT LAKE CITY, UTAH

OFFICIAL SAMPI		·						185	veo: Febru	ary 14,	, 1991	
			SEED IN	ISPECTION AN	TION AND LABORATORY REPORT				· · · · · · · · · · · · · · · · · · ·			
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DESCRIPTION OF	SHIPMENT	: (OBTAINED FROM IN	NVOICE, BILL OF LADI	G, RECEIVING RE	CORDS, ETC.)							
4. NAME & ADD					•		5.	DATE SHIPPED				
			in Seed, Bo	x 2, Ephr	lam, Uta	an.			5, 1990			
6. NAME & ADD			North 100 W	est, Hunt	ington,	Utah	7.	Oct 1	6, 1990			
8. SHIPPED FROM				9. SHIPPED TO								
10. NAME & ADD	RESS OF C	ARRIER				11. T	RANSPORTAT	ION RECORD N	О.			
Unit	ed Sta	ites Postal	Service									
12. KIND AND V	ARIETY SHO	OWN		13. LOT NO	. 14	. NO. BAGS	15.	TOTAL WT.	16. INVOICE NO.	17. INVOIC	NVOICE DATE	
				M-S	059				* .			
DESCRIPTION OF	SAMPLING	:					·					
18. NO. BAGS RE	CEIVED	19. NO. ON HAND	20. NO. SAMPLED	OP	ENED 21.	METHOD OF SA	AMPLING (LEN	GTH OF TRIEF	, BY HAND, ETC.	)		
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	·	Randail	. Ralphs					-Carl	Bott			
23 WITNESS TO 24. REMARKS	SAMPLING_	Carlo Service A. C.				INSPECTOR						
				N. A.								
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25 ERE LABEL	S LIKE THE	ONE ATTACHED	26. IF LABELS WERE N	OT ATTACHED DE	SCRIBE THE	27. WERE BAG	S SHIPPED W	THOUT LABEL	S 28. NET WT.	LAIMED		
ON ALL BAG	S WHEN SAI	MPLED?	DOCUMENT ON W	HICH THE LABEL	APPEARED.	BY AGREE	MENT WITH 1	HE CONSIGNE	31.9	_LBS	oz.	
	XXXes	Пио	*				YES [	OTHER				
29. NAME AND A	DDRESS OF	DEALER SHOWN	<u> </u>			L			30. CODE DE	IGNATION, I	FANY	
Stev	enson	Intermounta	in Seed, Bo	x 2, Ephc	iam, Ut	ah			AMS	PMA		
31. LOT NO.	1	32. ORIGIN 33. 0	ERTIFIED?	34. WHERE CER	FIFIED?	35. GRADE	36. 5	UBSTANCE US	D IN TREATMEN	T OF SEED		
M-90	59	See Labe	YES NO									
	1	KIND AND	VARIETY	PURE	WEED	INERT	OTHER	GERMI-	HARD SEED %	GERM. + H.S. %	DATE OF TEST	
ANALYSIS CLAIMED	37.			38.	SEED % 39.	MATTER %	41.	42.	43.	44.	45.	
CLAIMED	Genwal Seed Mixture			0.05	1.55	0.04	See			See		
NOXIOUS WEEDS	46.	Jone						Labe?			Label	
*FOUND BY	47.			48.	49.	50.	51.	52.	53.	54.	55.	
STATE LAB.	See	d mixture		PASS	ED TEST	2	ļ	PASS	SED TEST		2/91	
56. NOXIOUS WE	ED SEEDS		NUMBER OF SEEDS	57. OTHER WEED	SEEDS	NUMBE	H OF SEEDS	58. CROP SEE	os	NUM	BER OF SEEDS	
PASSED T	EST											
		D BY LABORATORY		60. WEIGI	T OF SAMPLE		•	<u> </u>	<u> </u>			
11/1	3/90				340 gr	ams						

Thisbag was rotated endouver end 4 times and side to side 5 times to make sure seed had notsetted. Seed sample was drawn corner to corner and corner to middle of top of bag from the bottom.

SEED TEST REPORT APPLIES ONLY TO THE SAMPLES SUBMITTED. SAMPLES SHOULD BE REPRESENTATIVE OF THE LOTS FROM WHICH THEY ARE TAKEN. THE SEED LABORATORY DISCLAIMS ANY RESPONSIBILITY FOR THE ACCURACY OF THE SAMPLING, UNLESS THE SAMPLE IS TAKEN BY AN AUTHORIZED EMPLOYEE OF THE UTAH STATE DEPARTMENT OF AGRICULTURE. IN REFERRING TO SAMPLES PLEASE GIVE LABORATORY TEST NUMBER.

\*VARIETY CONFIRMED BY LABORATORY ONLY WHEN STATED.

Millison SUPERMISON GE

G.R. WILSON — SUPERVISOR GRAIN, SEED and FEED INSPECTION



January 3, 1991

Mr. Lynn Kunzler
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
355 West North Temple
Salt Lake City, UT 84180-1203

RE: Permit # ACT 015-032
Genwal Coal Company
Reseeding of Disturbed Areas &
Extemporaneous Seeding

Dear Mr. Kunzler:

On October 22nd and 23rd, 1990, Genwal Coal Company completed the abatement of NOV 90-17-3-2 Step #3 by applying approved seed mix to the area mentioned in the NOV. At that time, the approved seed mix was also applied to the disturbed slope just east of the substation high wall north of the truck turn-around area. See attached map for locations.

The following is a brief description of the reseeding techniques and procedures:

- 1) <u>Soil Preparation</u>: Both areas were hand raked to provide a loose friable seedbed.
- 2) Seed: The seed mixture was obtained from Stevenson Intermountain and was applied following the species and amounts per acre as required by our mining and reclamation permit. The seed was broadcast by hand, then raked into the soil to ensure proper seed soil contact. See attached list of approved seed mixture.
- 3) Clean straw was used as cover for the seed bed. It was spread over the entire area and crimped into the soil by use of a shovel.

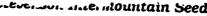
Should you have any questions or need additional information, please feel free to contact me at 687-9813.

Sincerely,

GENWAL COAL COMPANY

Randal J Ralphs Surface Foreman

tr



Box 2 Ephraim, Utah 84627 (801) 283-6639 Genwal Seed\_Mixture

Variety/Species	% Pure Seed	% Germ	% Dorm	% Germ & Dorm	Origin	Test
Western Wheatgrass Bromar Mountain Brome Slender Wheatgrass Secar Bluebunch Wheatgrass Appar Lewis Flax Delar Small Burnet Yellow Sweetclover	21.36 19.39 19.37 13.62 7.63 6.74 3.57	68 97 97 92 82 93 88	20	88 97 97 92 82 93 88		5/90 4/90 4/90 5/90 5/90 4/90 2/901
Elueleaf Aster Paiute Orchardgrass	3.49 3.19	87TZ 98		87TZ 98	UT	4/90 2/90

% Inert 1.55 % Crop .04 % Weed .05 % Nox. Weed none

Net Wt. 31.92\*\*eed Mixture Lot No. M-9059 Customer Order No. 2238

GUARANTEE: Stavenson Intermountain Seed guarantees its seed to be of promised quality and true to name as specified, within recognised tolerances, but express or imply no further guarantee. Liability shall be limited to replacement or refund of purchase price.

## INVOICE

## Stevenson Intermountain Seed

P.O. Box 2 Ephraim, Utah 84627 (801) 283-6639

Sold To:				Shipped To:				······································	
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Interest is charged at 1.5% per month (18% A.P.R.) on all accounts past due.

ss or imply no further guarantees. Our liability is limited in amount to the purchase price. Any claims against seed purchased must be made in writing within 10 days after receipt of shipment.

